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RANS S-6S SUPER COYOTE II SPECIFICATIONS AND PERFORMANCE

SPECIFICATIONS 52HP 65HP 80HP/100HP

Wing Span.....	34.5 ft.....	34.5 ft	34.5 ft
Area*	155.25 sq ft...	155.25 sq ft.....	155.25 sq ft
Mean Chord	4 ft 6 in	4 ft 6 in.....	4 ft 6 in
Aspect	7.66:1	7.66:1	7.66:1
Length	21 ft.....	21 ft	21 ft
Height**	9 ft.....	9 ft	9 ft
Cockpit Width	45 in.....	45 in.....	45 in
Headroom	39 in.....	39 in.....	39 in
Legroom	41 in.....	41 in.....	41 in
Number of Seats	2.....	2	2
Doors.....	2.....	2	2
Landing Gear***	F/TD/TR.....	F/TD/TR.....	F/TD/TR
Baggage Volume.....	6 cu ft.....	6 cu ft.....	6 cu ft
Baggage Capacity	50 lbs	50 lbs.....	50 lbs
Aux. Baggage Volume****	7cu ft.....	7 cu ft.....	7 cu ft
Aux. Baggage Capacity....	30 lbs	30 lbs.....	30 lbs
Fuel Capacity	18 gal US.....	18 gal US.....	18 gal US

POWER PLANT 503 582 912/912S

Engine	Rotax 503.....	Rotax 582.....	Rotax 912/912S
Output	52 hp.....	65 hp	80 hp/100 hp
Oil Capacity	n/a.....	2.5 qts.....	3.0 qts
Coolant Capacity	n/a.....	4.4 qts.....	4.4 qts
Propeller Diameter	66 in to 72 in	66 in to 72 in.....	66 in to 72 in
Propeller Type.....	Wood	Wood	Wood
Gear Reduction	1:2.58.....	1:2.58	1:2.27/1:2.43
Fuel G.P.H.	4.0 gal @ 85%	5.75 gal @ 85%	4.1/4.5 gal@80%

PERFORMANCE

Take Off Roll	235 ft.....	160 ft	190ft/180ft
Rate of Climb	500 fpm.....	900 fpm.....	1000 fpm/1400fpm
Service Ceiling	12,500 ft.....	17,000 ft.....	17,000ft/17,500ft
Cruise	80 mph.....	95 mph ..	100 mph/108 mph
VNE	120 mph.....	120 mph	120 mph
Stall Clean.....	38 mph.....	39 mph	41 mph
Stall Flaps	33 mph.....	34 mph	36 mph
Roll Rate	70° / sec.....	70° / sec.....	70° / sec
Glide Ratio	9:1.....	9:1	9:1
Landing Roll	250 ft.....	250 ft	250 ft
Endurance	4.5 hrs.....	3.1 hrs	4.4 hrs/4 hrs
Range	360 miles	295 miles ..	440 miles/432 miles

WEIGHTS AND LOADINGS

Gross Weight	1000 lbs.....	1030 lbs.....	1100 lbs
Empty Weight	510 lbs.....	540 lbs.....	610 lbs
Useful Load	490 lbs.....	490 lbs.....	490 lbs
Wing Loading	6.44 lbs	6.28 lbs.....	6.51 lbs
Power Loading	19.2 lbs	15.0 lbs.....	12.6 lbs
Limit Load Factors.....	+4-2	+4-2	+4-2

*Larger Chord Aileron/Flaps available as option Area-2 (166.25 sq ft)

** Trike height is shown, Taildraggers are 6 ft.

***F/TD/TR=Fixed Taildragger/ Trike

****Baggage Compartment optional

Performance at sea level and maximum gross weight

STANDARD EQUIPMENT

- Welded 4130 cockpit cage comes powder coated
- Aluminum tube tail cone
- Most parts powder coated or anodized
- Full interior kit and baggage compartment
- Cabin skylight
- Dual rudder pedals
- Single hydraulic toe brakes
- Aluminum wheels
- Aircraft grade tires
- Tapered spring steel main gear
- Telescoping steerable nose gear or steerable tail wheel option available
- Deluxe Upholstered seats with map pockets, adjust fore and aft, 4 positions
- Dual control sticks
- Single Panel mount throttle
- Center flap handle
- 4 Position flaps
- Aluminum framed LEXAN bubble doors
- Dual air vents
- Aluminum airfoil struts
- 3" Main wing spar
- 2" Trailing wing spar
- In-cockpit fuel sump drain
- 9 Gallon fuel tank in each wing
- Lap and shoulder belts
- Differential ailerons
- Dual elevator horns
- Push pull operated elevator
- Ailerons operated by cables and push-pull tubes
- Ball bearing aircraft control pulleys
- Aluminum tail ribs
- Folding tail, wings and jury struts
- Double cable braced tail
- Gear leg fairings
- 2.7 oz. Aircraft fabric
- All tapes, inspection plates, lacing
- Exit fairings and fabric glue

ENGINE INSTALL KIT EQUIPMENT

- 2-Blade wood prop
- Low drag fiberglass cowling and 12" spinner
- Cowling removes quickly with ¼ turn fasteners
- 4-Point rubber isolated engine mount
- ASI, Hourmeter, RPM
- Engine instruments (vary with engine install choice)
- Muffler (vary with engine install choice)
- Cooling system (vary with engine install choice)
- 12" Spinner and Spacer
- Hardware, Wiring, Hoses, and Filters

The S-6S is an FAA Approved 51% Kit In Standard or Quick Build Form-No welding required.

BUILD TIME: 500 to 700 HOURS

QUICK-BUILD BUILD TIME: 250 to 350 HOURS

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